

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
25 January 2001 (25.01.2001)

PCT

(10) International Publication Number
WO 01/06735 A3(51) International Patent Classification⁷: **H04M 3/487**

(21) International Application Number: PCT/KR99/00690

(22) International Filing Date:
17 November 1999 (17.11.1999)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1999/29153 19 July 1999 (19.07.1999) KR
1999/33113 12 August 1999 (12.08.1999) KR
1999/41268 27 September 1999 (27.09.1999) KR(71) Applicant (for all designated States except US):
RINGFREE CO.,LTD. [KR/KR]; Dusan Bearstel
1308, 1319-11 Seocho-2-dong, Seocho-ku, Seoul 137-040
(KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RHEE, Hyoung, Chan** [KR/KR]; Samho Garden Mansion 8-409, 30-2, Banpo-dong, Seocho-ku, Seoul 137-040 (KR). **HONG, Jong, Su** [KR/KR]; Jugong Apt., 402-205, Haan-2-dong, Kwangmyung City, Kyunggi-do 423-062 (KR).(74) Agent: **LEE, Byeong Gil**; #401, Sang-ma building, 828-23 Yoksom-dong, Kangnam-gu, Seoul 135-935 (KR).

(81) Designated States (national): AU, BR, CA, CN, JP, US.

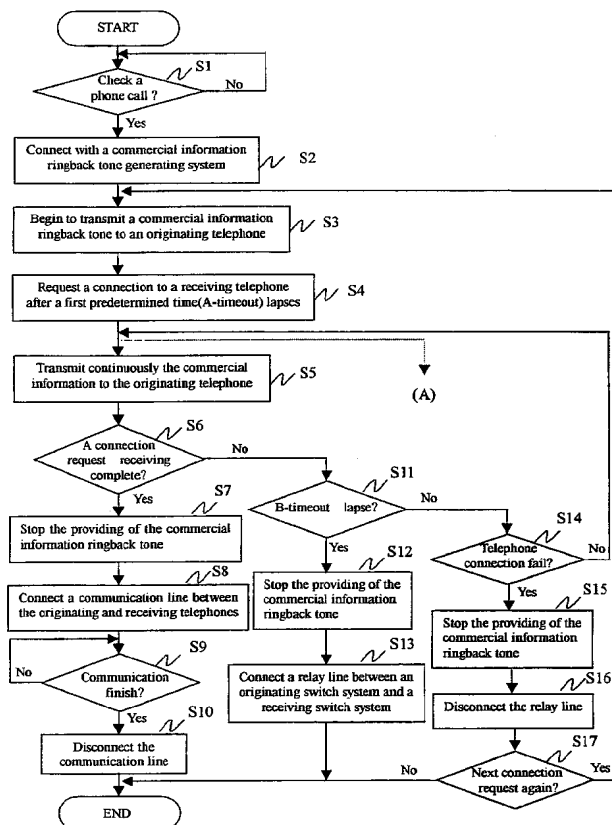
(84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published:

— with international search report

[Continued on next page]

(54) Title: METHOD AND DEVICE FOR GENERATING VOICE/TEXT/IMAGE COMMERCIAL INFORMATION RINGBACK TONE DURING COMMUNICATION WAIT



(57) Abstract: Voice/text/image commercial information generating method and device during a communication is on wait. The method includes the steps of: checking a telephone call, connecting with a commercial information ringback tone generating system/device at an originating or a receiving communication system when the call is detected, beginning to transmit a commercial information in forms of voice/text/image instead of the original ringback tone or a guide message to an originating telephone from the commercial information ringback tone generating system during a communication wait, requesting a connection to a receiving telephone from the commercial information ringback tone generating system after an A-timeout lapses, continuously transmitting the commercial information to the originating telephone, checking whether the receiving telephone accepts the connection request, stopping the providing of the commercial information ringback tone if the telephone connection is made, connecting a communication line between the originating and the receiving telephones, checking whether the communication is finished, and disconnecting the communication line if the communication finishes.

WO 01/06735 A3



(88) Date of publication of the international search report:
9 August 2001

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR 99/00690

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: H 04 M 3/487

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: H 04 Q, H 04 M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI, EPODOC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 96/05684 A1 (QUANTUM SYSTEMS, INC.) 22 February 1996 (22.02.96) abstract, fig. 1; page 10, line 15 - page 15, line 20; page 19, line 4 - page 22, line 17; page 23, line 24 - page 25, line 16; page 34, line 13 - page 37, line 10.	1, 3-15, 18, 19
A	GB 2 316 268 A (BLAKE, W.) 18 February 1998 (18.02.98) abstract, figs. 1, 2; page 2, lines 1 - page 4, line 20; page 5, line 5 - page 7, line 29.	1, 3, 5, 6, 9, 12, 18, 19
A	WO 98/36585 A2 (NORTHERN TELECOM INC.) 20 August 1998 (20.08.98) abstract, figs. 1, 2a, 2b; page 4, line 5 - page 5, line 21; page 6, line 11 - page 7, line 26.	1, 3, 11, 13, 16, 18, 19
A	US 5 539 809 A (MAYER et al.) 23 July 1996 (23.07.96) abstract, figs. 1, 2; column 1, lines 27 - 49.	1, 4, 18, 19
A	US 4 811 382 A (SLEEVI, N.F.) 7 May 1989 (07.05.89) abstract, fig 2; column 2, lines 40 - 58.	1, 5, 17-19

☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents: „A“ document defining the general state of the art which is not considered to be of particular relevance „E“ earlier application or patent but published on or after the international filing date „L“ document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) „O“ document referring to an oral disclosure, use, exhibition or other means „P“ document published prior to the international filing date but later than the priority date claimed	„T“ later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention „X“ document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone „Y“ document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art „&“ document member of the same patent family
--	--

Date of the actual completion of the international search 17 January 2001 (17.01.2001)	Date of mailing of the international search report 13 February 2001 (13.02.2001)
Name and mailing address of the ISA/AT Austrian Patent Office Kohlmarkt 8-10; A-1014 Vienna Facsimile No. 1/53424/535	Authorized officer LOIBNER Telephone No. 1/53424/323

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR 99/00690

Patent document cited in search report				Publication date		Patent family member(s)		Publication date	
GB	A1	2316268		18-02-1998		GB	A0 9616523	25-09-1996	
						GB	A0 9716358	08-10-1997	
US	A	4811382		07-03-1989		US	E 34380	14-09-1993	
US	A	5539809		23-07-1996		JP	A2 6237300	23-08-1994	
WO	A1	9605684		22-02-1996		AU	A1 31021/95	07-03-1996	
						AU	B2 685982	29-01-1998	
						CA	AA 2197204	22-02-1996	
						EP	A1 776565	04-06-1997	
						EP	A4 776565	17-11-1999	
						JP	T2 9506232	17-06-1997	
						JP	B2 2947614	13-09-1999	
						NZ	A 290315	25-03-1998	
						US	A 5557658	17-09-1996	
						AT	E 183350	15-08-1999	
						AU	A1 22530/92	25-01-1993	
						CA	AA 2110711	07-01-1993	
						DE	C0 69229789	16-09-1999	
						EP	A1 593556	27-04-1994	
						EP	A4 593556	09-08-1995	
						EP	B1 593556	11-08-1999	
						JP	T2 6508968	06-10-1994	
						JP	B2 2899991	02-06-1999	
						MX	A1 9203084	01-08-1993	
						NZ	A 243233	26-08-1994	
						SG	A1 45435	16-01-1998	
						US	A 5321740	14-06-1994	
						WO	A1 9300763	07-01-1993	
						US	A 5428670	27-06-1995	
WO	A2	9836585		20-08-1998		EP	A2 962090	08-12-1999	
WO	A3	9836585		19-11-1998					